

Electronic Application SYstem

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Why EASY?

- Users like to use PC to fill in Application Form
- Patent Description is prepared on PC (as well)
- Patent Office prefers to receive Electronic Patent Applications



What does EASY aim to do?

- improve and simplify Application Procedure
- offer a Secure Procedure
- reduce Handling Costs
- reduce Publication Costs
- provide compatible Software to be used in EPO, USPTO and PCT submissions



Trilateral EASY

- Agreement signed in November 1992
 by EPO, USPTO and WIPO:
 - * Development of Software for the Electronic Preparation and Filing of European, US and PCT applications.
- JPO acts as consultant (Electronic filing already implemented)

EASY Phases

- Phase 1: Prototyping
- Phase 2: Revision and Extension
- Phase 3: Paperless Procedure
- Phase 4: On-line Filing



Developing EASY Prototype

- Detailed *Analysis* of Patent Application
 Procedure
- Drawing up of Software Specification
- Engagement of Contractor for Software Development
 - * (paper copy is legally binding version)



Two Parts with different Functions:

- Software Package for Applicants' PC's
 - * electronic forms
 - * validation
 - * help screens
 - * attachment of specification
- Software Package for Receiving Offices
 - * validation
 - * allocation of filing date and application number

Milestones:

June 8, 1994 EASY 0.3i

Limited release of prototype (beta-test)

June 27, 1994

First EASY application filed

April 1, 1995

Extension of beta-test

EASY 0.5



EPO-EASY 0.5 Extension of Beta Test

- 85 copies sent to potential users
- in 12 countries:
 - * Belgium, Denmark, Finland, France, Germany, Italy, Luxembourg, Netherlands, Spain, Sweden, Switzerland, Great Britain
- "Introduction to EASY" Seminars



Introduction to EASY seminars

- Purpose
 - * to increase awareness of EASY and
 - * to increase *number* of EASY Applications

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155 Real Applications at EPO

* from 20 European Clients

1994	44
1995	6
1995	10
1995	9
1995	11,
1995	8
1995	18
1995	16
1995	11
1995	22
	1995 1995 1995 1995 1995 1995 1995



Prototype Evaluation

- Bugs in the software
- Need for virus checks
- Need for communication with user's database systems

EASY Phases

- Phase 1: Prototyping
- Phase 2: **Revision and Extension** resulting in
 - * Implementation guide
 - * EPO-EASY production version
 - * Study of phase 3 and 4 issues
- Phase 3: Paperless Procedure
- Phase 4: On-line Filing



EPO-EASY v. 1.0 Development

- Targets
- Consultancy Studies
- Call for Tender
- Planning

EASY 1.0 Targets

An EASY production version that

- * is fast, robust and maintainable
- * is adaptable for creating multi-language versions
- * contains a common core for all EASY programs

An EASY output that

- * can easily be transferred to *internal databases*
- * can be used in the *publishing process*



Consultancy Studies to

- identify a suitable Development Platform
- identify Modules that can be *shared* between EASY versions ("common core concept") to reduce costs and increase compatibility
- make the User Interface more *consistent*
 - * Notebook Approach
 - * Validation (traffic lights/symbols)
 - * Master/Detail Tables
- Database Performance Studies

Call for Tender

June 1995 Completion of Consultancy Studies

Sept. 1995 Publication of Tender Documents

Nov. 1995 Contract to be Awarded

Apr. 1996 Alpha to be Received

June 1996 Release of EPO-EASY Version 1.0



Phase 2: Further planning



Phase 3 & 4 Issues

- (1) Agree on Communication Model and acceptable Electronic Exchange Channels
- (2) Target Groups
- (3) Paperless Filing
- (4) Security issues



EPO-EASY Commun. Model:



"transparent" Communication Channel

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EPO-EASY: Channel

- Freedom to choose Exchange Channel depending on
 - * Availability,
 - * Cost and
 - * Convenience
- Alternatives may be
 - * Floppy Disk,
 - * Internet, CompuServe,
 - * X.400,
 - * ISDN,

3 Target Groups:

- Single Users: Saul Practise,
 Indep. Patent Lawyer with few appl's/year
- Networked Users: BW&D Associates,
 Patent Attorneys, filing two appl's/week
- Corporate Users: ABC Inc.,

 Multinational Corporation with separate Patent
 Department, files several appl's/week



Saul Practise - Single User

- enters Forms data using EASY
 - * using his own EASY address book
- submits (and receives)
 via an *inexpensive* public channel:
 by modem using e.g. Internet or CompuServe

BW&D - Networked Users

- share EASY databases with colleagues,
 - * fees & configuration database,
 - * address database,
 - * application database
- work within the EASY environment
 - * importing existing data
- submits and receives via his Mail Server,
 - * connected to *Internet*

) ABC Inc. - Corporate Users

- continue to use *own* system and databases (e.g. Oracle) due to heavy investment
- copy data to EASY
 - * by linking EASY to Oracle (easy!)
- EPO-EASY used only for
 - * Validation (implicit) and
 - * Submission
- transfers files using an ISDN link



(3) Paperless Filing

- Which files are submitted?
- Conditions for Paperless Filing
- Possible File Formats



Which Files are submitted?

EASY Forms Data file(s)

- * to be incorporated into the *target database* (EPASYS at the EPO)
- * to be used for publishing the front page

attached Description file(s)

- * to be used for *publishing* the description
- * to be used as *legally valid* copy



Condition 1 for Paperless Filing

- electronic files must be acceptable asOriginals, i.e. they must have
 - * Layout Fidelity:
 both sender and receiver are able to print copies
 which are faithful in content and layout
 - * Security

 (Authentication, Confidentiality, Integrity)
 which should be at least as good as with paper



Condition 2 for Paperless Filing

- electronic files must capable of replacing paper files in the publishing process
- in particular act as fallback for
 - * complex drawings or
 - * (embedded) mathematical or
 - * (embedded) chemical formulae